## **CLAIMS**

## What is claimed is:

1	1.	A method comprising:
2		receiving a database statement that
3		makes a change that causes a loss of data, and
4		contains a clause that specifies an aggregate operation to be performed on
5		a plurality of values associated with the change; and
6		in response to receiving the database statement, performing the aggregate
7		operation on the plurality of values.
1	2.	The method of claim 1, wherein the performing of the aggregate operation is
2		performed while performing the change.
1	3.	The method of claim 1, wherein the loss of data includes values of the data before
2		the change.
1	4.	The method of claim 1, wherein the loss of data includes values of the data after
2		the change.
1	5.	The method of claim 1, wherein the change is an update of the data.
1	6.	The method of claim 1, wherein the change is a deletion of the data.
1	7.	The method of claim 1, where in the receiving is performed by an SQL engine.
1	8.	The method of claim 1, wherein results of the aggregate operation are passed from
2		an SQL engine to a server side stub without passing the data in its entirety.
1	9.	The method of claim 8, wherein results of the aggregate operation are passed from
2		an SQL engine to a client interface without passing the data in its entirety.

1 2	10.	The method of claim 1, where the database statement is sent from a client interface.				
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1	11.	The method of claim 1, wherein the database statement contains multiple				
2		aggregate operations.				
1	12.	The method of claim 11, wherein performing includes:				
2		parsing the database statement;				
3		establishing a list of operator trees, each operator tree corresponding to a different aggregate function; and				
5		establishing an aggregate function list including structures pointing to work				
spaces for performing the aggregate functions.						
1		13. The method of claim 1, wherein:				
2		the receiving of the database statement is performed via a call interface;				
3		the performing of the aggregate operation generates an aggregate value; and				
4		the method further includes passing the aggregate value through the call interface				
5		without passing the plurality of values.				
1	14.	A method comprising:				
2		receiving a database statement that				
3		makes a change that causes a loss of data, and				
4		contains a return clause that indicates which values involved in said				
5		change are to be changed; and				
6		in response to receiving the database statement, performing the change and				
7		returning multiple values that were involved in said change.				
1	15.	A system comprising computer readable medium carrying instructions for causing				
2		a processor to perform a method including at least:				

	receiving a database statement that
	makes a change that causes a loss of data, and
	contains a clause that specifies an aggregate operation to be performed on
	a plurality of values associated with the change; and
	in response to receiving the database statement, performing the aggregate
	operation on the plurality of values.
16.	The system of claim 15, wherein the performing of the aggregate operation is
	performed while performing the change.
17.	The system of claim 15, wherein the loss of data includes values of the data
	before the change.
18.	The system of claim 15, wherein the loss of data includes values of the data after
	the change.
19.	The system of claim 15, wherein the change is an update of the data.
20.	The system of claim 15, wherein the change is a deletion of the data.
21.	The system of claim 15 further comprising a computer that accesses the computer
	readable medium.
22.	The method of claim 15, wherein the clause contains multiple aggregate
	operations.
23.	The method of claim 22, wherein performing includes
	parsing the database statement;
	establishing a list of operator trees, each operator tree corresponding to a different
	aggregate function; and
	17. 18. 19. 20. 21.

5	5 establishing an aggregate function list including structures pointing to wor				
6	spaces for performing the aggregate functions.				
1		24.	The system of claim 15, wherein:		
•			ceiving of the database statement is performed via a call interface;		
3	•				
4	the method further includes passing the aggregate value through the call inter-				
5			without passing the plurality of values.		
1	25.	A sys	stem comprising computer readable carrying instructions for causing a		
2		proce	essor to perform a method including at least:		
3		receiv	ving a database statement that		
4			makes a change that causes a loss of data, and		
5			contains a return clause that indicates which values involved in said		
6			change are to be changed; and		
7		in res	ponse to receiving the database statement, performing the change and		
8			returning multiple values that were involved in said change.		